

OBJECTIVE	FUNDING
<b>Stock Assessment and Population Dynamics</b>	<b>\$22,428,000</b>
<i>Distribution and Movements (surveys, tagging)</i>	\$5,532,000
<i>Size / abundance (surveys, estimation)</i>	\$5,523,000
<i>Stock assessment</i>	\$3,081,000
<i>Population genetics /stock delineation</i>	\$2,284,000
<i>Vital rates (survival, mortality, growth, R)</i>	\$1,968,000
<i>Trends</i>	\$1,732,000
<i>Population dynamics (modeling, sustainability, K, OSP)</i>	\$1,653,000
<i>Structure (ages, sex ratio)</i>	\$655,000
<b>Technology Development</b>	<b>\$12,096,000</b>
<i>Acoustic detection, classification and localization algorithms / models / software</i>	\$3,516,000
<i>Imaging / Image analysis (e.g., photographic, satellite, digital)</i>	\$1,056,000
<i>Database design / development / maintenance / archiving</i>	\$1,051,000
<i>Biological testing methodologies</i>	\$966,000
<i>Mathematical / Statistical / Simulation models</i>	\$922,000
<i>Tags / Telemetry devices</i>	\$820,000
<i>Acoustic density estimation models / software</i>	\$788,000
<i>Habitat mapping / modeling</i>	\$741,000
<i>Sampling platforms (e.g., gliders, UASs)</i>	\$620,000
<i>Biological sampling devices (e.g., biopsy, blow, feces)</i>	\$455,000
<i>Acoustic devices</i>	\$435,000
<i>GIS</i>	\$225,000
<i>Line transect methodology</i>	\$182,000
<i>Cameras (e.g., visible, IR)</i>	\$159,000
<i>Photo-ID</i>	\$108,000
<i>Fisheries gear modification or alternatives</i>	\$43,000
<i>Oceanographic sampling devices (e.g., physical, chemical)</i>	\$6,000
<b>Biology (Organismal)</b>	<b>\$10,007,000</b>
<i>Physiology / Endocrinology / Biochemistry / Neurology / etc.</i>	\$2,506,000
<i>Bioacoustics – sound reception</i>	\$2,105,000
<i>Behavior – Diving / Foraging / Feeding</i>	\$1,425,000
<i>Reproduction / Growth / Aging</i>	\$1,047,000
<i>Behavior – Social / Reproductive</i>	\$882,000
<i>Bioacoustics – sound production</i>	\$664,000
<i>Genetics / Taxonomy</i>	\$579,000
<i>Anatomy / Morphology</i>	\$405,000
<i>Behavior – Kinematics / Activity budgets / Energy budgets</i>	\$324,000
<i>Paleontological studies</i>	\$71,000
<b>Ecology</b>	<b>\$9,226,000</b>
<i>Habitat use</i>	\$2,475,000
<i>Trophic Interactions / Diet / Foraging ecology</i>	\$2,146,000
<i>Behavioral ecology</i>	\$1,770,000
<i>Habitat characterization (oceanographic, prey-field factors)</i>	\$1,584,000
<i>Population ecology</i>	\$664,000
<i>Ecosystem / Environmental studies</i>	\$581,000
<i>Traditional ecological knowledge</i>	\$7,000

<b>Conservation and Management</b>	<b>\$7,056,000</b>
Conservation	\$3,052,000
Management	\$2,055,000
Population protection / recovery	\$1,787,000
Co-management	\$162,000
<b>Animal Health</b>	<b>\$6,292,000</b>
Monitoring / Assessment	\$4,129,000
Disease	\$868,000
Contaminants	\$595,000
Body condition	\$558,000
Biotoxins	\$142,000
<b>Anthropogenic Sound Impacts</b>	<b>\$4,041,000</b>
Military activities - sonar and explosives	\$2,876,000
Characterization / Analysis of sound budgets / soundscapes	\$870,000
Energy development – seismic surveys	\$143,000
Industrial activity – shipping	\$102,000
Energy development – drilling	\$17,000
Energy development – platform removal	\$17,000
Industrial activity – pile driving	\$17,000
<b>Human Dimensions</b>	<b>\$2,284,000</b>
Social science (inc. education/outreach)	\$2,009,000
Economics	\$275,000
<b>Fishery Interactions</b>	<b>\$1,503,000</b>
Bycatch - entanglement (inc. observer program)	\$952,000
Bycatch – mitigation	\$321,000
Indirect / competitive interactions	\$126,000
Depredation (inc. depredation mitigation)	\$104,000
<b>Other Anthropogenic Impacts</b>	<b>\$687,000</b>
Disturbance	\$411,000
Vessel strikes	\$234,000
Tourism - observing (whale watching, rookery viewing)	\$38,000
Tourism - feeding / swim-with	\$4,000
<b>Pollution Impacts</b>	<b>\$589,000</b>
Hydrocarbon spills/leaks (inc. dispersants)	\$257,000
Marine debris – inc. plastics	\$148,000
Marine debris – derelict fishing gear	\$131,000
Nutrient runoff / HABs	\$29,000
Hydrocarbon spills/leaks (inc. dispersants)	\$24,000
<b>Major Marine Mammal or Multidisciplinary Scientific Conference</b>	<b>\$108,000</b>
Major marine mammal or multidisciplinary scientific conference (inc. support for SMM, ECS, etc.)	\$108,000